BRUHATH BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

DIVISION: DASARAHALLI

SUB-DIVISION: SHETTYHALLI

Name Of Work : Repairs and Maintenance Of Borwells at Chikkasandra and Surrounding Areas in Ward no.17 Dasrahalli Sub Division.

Est Cost: Rs.15.00 Lakhs

P-Code :1802

BRUHATH BANGALORE MAHANAGARA PALIKE

Dasarahalli Zone

Name of Work:- Repairs and Maintenance of Borewells at Sidedahalli and surroundings area (110 village area) in Ward No:17 Chikkasandra

Est.Cost;- 15.00 Lakhs

S.L. No	Particulars	Unit	Qty	Rate	Amount
A	**MOTOR REWINDING** Rewinding of submersible pumpset with copper winding wires of appropriate guage, as per specifications and / or directions of the departmental officials, including all materials, labour, equipment and testing. for all types of submersible pumpsets etc.(with guarantee period not less than 6 months) For all types of submersible pumpsets(BWSSB SR 23-24 P-147)				
1	above 10 HP and upto 11 H.P. (BWSSB SR 23-24 P-147 I-13.1.13)	No	4.00	5177.00	20708.00
2	12.50 H.P (BWSSB SR 23-24 P-147 I-13.1.15)	No	6.00	5983.00	35898.00
3	15.00 H.P (BWSSB SR 23-24 P-147 I-13.1.17)	No	6.00	6811.00	40866.00
B	**Repair of Pump parts** Replace the components of submersible pump sets, requiring replacements decided by the departmental officials, with respective make of damaged ones, including all materials, labour, equipments and testing etc.(with gurantee of period not less than 1 year) for:(BWSSB SR 23-24 P-147 I-13.2 to 13.2.17)		**16.00**		
4	The bowls of same type and make	Each	16.00	1500.00	24000.00
5	The Intermediate piece (IP) with IP leaded bronze brush.	Each	16.00	1050.00	16800.00
6	The Oil Seal.	Each	32.00	350.00	11200.00
7	The Oil Seal.and steel bush	Each	16.00	250.00	4000.00
8	The Guide Vane	Each	16.00	700.00	11200.00
9	The Impeller (Shell moulded with aluminium and bronze.)	Each	16.00	1500.00	24000.00
10	The discharge outlet (DO) bearing DO steel brush DO bearing.	Each	16.00	2050.00	32800.00
11	The steel bearing bush (DO steel bush)	Each	16.00	400.00	6400.00
12	The allen screw	Each	16.00	1200.00	19200.00
13	The pump shaft made out of stainless steel counterless ground with key way (upto 8 stages). Extra for Each stage @ Rs.40/-.	Each	13.00	1500.00	19500.00
14	The pump key (stainless steel)	Each	13.00	650.00	8450.00
15	The pump coupling (stainless steel)	Each	13.00	1500.00	19500.00
16	The Non Return Valve (NRV) assembly complete with rubber 'O' ring.	Each	13.00	650.00	8450.00
17	The cable guard	Each	13.00	350.00	4550.00
18	The strainer	Each	13.00	450.00	5850.00
19	The brass filter	Each	13.00	1050.00	13650.00
20	The Labour Charges for overhauling of the pump set.	Each	13.00	900.00	11700.00
C	Replace the components of motor parts of submersible pump sets, items requiring replacements decided by the departmental officials, with respective make of damaged ones, including all materials, labour, equipments and testing etc and wtih guarantee/ warranty for one year for:(BWSSB SR23-29-P-148 I-13.37)				
21	The upper flange I-(13.38)	Each	13.00	650.00	8450.00
22	The lower flange I-(13.3.9)	Each	13.00	650.00	8450.00
23	upper/ lower housing I-(13.3.10)	Each	13.00	1200.00	15600.00
24	The Lock Ring I-(13.3.11)	Each	13.00	350.00	4550.00
25	The Carbon Housing I-(13.3.12)	Each	13.00	2000.00	26000.00
26	The Carbon Housing (Thrust bearing block assembly complete with segment bearing pad I-(13.3.13)	Each	13.00	2200.00	28600.00
27	The Carbon Housing (Top carbond / ferrodo padding) (13.3.14)	Each	13.00	350.00	4550.00
28	The Stud and Nuts I-(13.3.15)	Each	13.00	200.00	2600.00
29	The Gun Metal bearing, centrifugally cast Aluminium Bronze bearing bush I-(13.3.16)	Each	13.00	850.00	11050.00
30	The Circlips I-(13.3.17)	Each	13.00	200.00	2600.00
31	The Motor base with pin I-(13.3.18)	Each	13.00	500.00	6500.00

33	Labour charges (Over hauling only) Motar	Each	16.00	3000.00	48000.00
34	Labour charges for lifting of non functioning submersible pump set along with cable and GI pipes (Each length = 6m) for 50 mm(BWSSB SR 23-24 P-142 I-12.24)	Job	380.00	229.00	87020.00
35	Labour charges for Erection of new / repaired submersible pump set along with GI pipes (32mm / 50mm), cable (New submersible pump set if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (Each length = 6 m) (BWSSB SR 23-24 P-142 1-28)	Job	400.00	187.00	74800.00
36	Supply and delivery at site Brand new best make PVC insulated cable of Flat 3 core (sheathed) of nominal cross sectional area as per IS 694-1990 with ISI Mark and as per its latest amendments. 1x3x4 Sqm (BWSSB SR 23-24 P-154, I-13.22.3)	Rmt	200.00	135.00	27000.00
37	Fabricating supplying and mounting MS box made out 14 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clA with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete. (PWD Ele SR 2023-24,Pg No-20 No -5.42.1) ie.,(Front & Back 1200X850X2=2040000mm)+(Sides 850X350X2=595000mm), (Top.Avg[{350+450}/2=400]400X1200X2=960000)=3595000mm /100=35950SQCM X 7Nos	Sq.Cm	251650	0.50	125825.00
38	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using ecessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 50-63 A TPN (PWD Ele SR 2023-24,Pg No-18 No -5.18.9)	No	20.00	3088.00	61760.00
39	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers (PWD Ele SR 2023-24,Pg No-14 I No -5.7.3)63 A	No	40.00	401.00	16040.00
40	Labour charges for providing connection using insulated sheathed steel wire cable as per IS 1554/ 1988 with latest amendments from KPTCL pole to meter board unit, with all necessary materials ,tools and equipments,as per specificationswith testing of as per instructions of engineer incharge of work. 3½ x 16 sqmm (LTUG Cable) .(BWSSB SR 2023-24, Page No:156,Item No13.35.5)	Rmtr	70.00	270.00	18900.00
41	Supply, installing,testing and commissioning COMMON control panel consisting of the following INCOMING:1 No set of Phase indicating lamps with SFU of suitable rating 1 No, Analog Ammeter, 1 No Analog Voltmeter 1ni with Phase selector switch, Isolating switch OUTGOING for Main Electrical Pump: 1 No. MCB 1 No. DOL of S/D Starter suitable for respective HP 1 No. Electrcal Protection Like single Phase preventor, under voltage over Volage, under current over current & dry run protection suitable for the pump described above 1 no Indoor type S-D- Star Delta Starter, 6 to 15 HP pumps (BWSSB SR 2023-24, Pg No-155 No -13.23.3)	Each	6.00	15900.00	95400.00
42	Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motor upto 20HP capacities.(PWD Ele SR 2023-24,Pg No-14 No -5.3)	Each	16.00	904.02	14464.32
43	Supplying fixing and wiring 0 to 600 Volts 96 x 96mm AC voltmeter - (PWD Ele SR 2023-24,Pg No-18 No -5.22)	Each	16.00	452.00	7232.00
44	Supplying fixing and wiring 0 to 100 Amps Direct Reading AC analog Ammeter - (PWD Ele SR 2023-24,Pg No-18 No -5.25)	Each	16.00	524.00	8384.00
45	Supplying, fixing and wiring rotary selector switch suitable for ammeter - (PWD Ele SR 2023-24,Pg No-19 No -5.27)	Each	16.00	200.00	3200.00
46	Supplying, fixing and wiring rotary selector switch suitable for Voltmeter - (PWD Ele SR 2023-24,Pg No-19 No -5.28)	Each	16.00	160.00	2560.00

	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 230/440VAC. 50 Hz 12/24V D.C. (PWD Ele SR 2023-24,Pg No-19 No -5.38)	Each	32.00	515.00	16480.00
48	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.(PWD Ele SR 2023-24,Pg No-16 No -15.4.1)22/25 A	Each	32.00	2210.00	70720.00
49	Suplying and fixing 50mm GI Collars (BWSSB SR 2023-24, Page No: 129, Item No:11.6.6)	Nos	30.00	267.00	8010.00
50	Supplying and fixing 50 mm GI pipes heavy duty for erection of submersible pumpset (BWSSB SR 2023-24, Page No: A30, Item No:183)	Mtrs	100.00	456.00	45600.00
51	Lifting of Struck up Submersible Pump Set , Above 300 Ft (BWSSB SR 2023-24, Item No:147 Page No12.27)	Each	2.00	13087.00	26174.00
52	Spplying and fixing 50mm GI Elbow. (BWSSB SR 2023-24, Pg No -131, I No-11.17.6)	No	6.00	267.00	1602.00
53	Spplying and fixing 50mm GI Nipple. (BWSSB SR 2023-24, Pg No -132, I No-11.14.6)	No	6.00	213.00	1278.00
54	Providing wrought mild steel (galvanized) 15 mm dia GI collar confirming to IS 1239-II, 1991 with latest amendments if any(BWSSB SR 2023-24, Pg No -129, I No-11.6.6)For 50 mm dia GI collar:	No	6.00	267.00	1602.00
55	Cutting and threading G.I. pipes for pump fitting, public fountains with appurtenances., where the length of pipe laid is less than 6 metres **Pipes of dia 32mm to 80mm** (BWSSB SR 2023-24, Pg No -5, I No-2.2.2)	No	100.00	322.00	32200.00
				SUB TOTAL	**1271123.32**
				ADD: GST 18%	228802.20
				Misc and rounding off	74.48
				GRAND TOTAL	**1500000.00**

CERTIFICATE

1) The work spot has been inspected and the work found to be necessary
2) The Estimate is prepared as per the PWD SR 2023-24 , PWD ELESR 2022-23 And BWSSB S.R 2023-24
3) The provision made in estimate are inadequated and essential
4) The area comes under BBMP limits

Asst. Engineer
Ward No-17

Asst. Exe.Engineer
Dasarahalli sub-Division

Exe. Engineer
Dasarahalli -Division

ADMINISTRATIVELY SANCTIONED FOR
(Rupees 15,00,000-/- Fifteen lakhs only)
Under the Head of Account P-1802
Registered as no EE(D.D.)/AS...15...Subject to conditions contained in Enclosed Memo
No: BBMP/EE/DD/AS/15/2023-25 Dt. 12/08/24
Exe
AE (DASARAHALLI

Technically Sanctione for Rs. 15,00,000-/-
Rs In words Fifteen lakhs only
Under P-1802
Job Code No
Registered as CE No 14-1 Subject
to conditions contained in Enclosed Memo
No BBMP/EE/DD/TS/14/2024-25 Dt. 28/08/24
AE/JE Exec